

Lucy E Delaney

graduate student in biological sciences

contact

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website

ledelaney.github.io/

github

ledelaney

programming

R

document markup

LaTeX, HTML & CSS,
Markdown &
RMarkdown

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Interests

Evolution outreach & education, macroevolution, the evolution of plant breeding systems, the nature of adaptation, data manipulation & visualization with `tidyverse`, `R` for undergraduate education

Education

PhD candidate in Ecology & Evolutionary Biology

University of Illinois at Chicago

Dissertation: *The Nature of Adaptation and the Epistemology of Natural Selection*

MA in Molecular & Cellular Biology, 2016

Hunter College (CUNY)

BS in Forensic Molecular Biology, Philosophy, 2012

John Jay College (CUNY)

Teaching

BIOS 220 Mendelian and Molecular Genetics

Fall 2019 - Summer 2020

Sophomore-level course focusing on Mendelian inheritance patterns and molecular mechanisms of inheritance. Helped managed transition from in-person to online delivery. Responsible for teaching discussion section, creating digital course materials & exams, grading, and Blackboard administration.

BIOS 230 Ecology and Evolution

Spring 2019

Sophomore-level course with emphasis on basic ecological systems, ecosystem dynamics, and evolutionary principles. Responsible for weekly office hours, assignment creation, and grading.

BIOS 430 Evolution

Fall 2017 - Fall 2018

Upper-division, programming-focused course on evolutionary theory and principles. Responsible for weekly office hours & debugging, quiz materials, and grading of `R` programming assignments.

BIOS 120 Biology of Populations and Communities

2016-2017

Introductory biology laboratory course with emphasis on ecological and evolutionary principles. Responsible for weekly laboratory instruction, office hours, and grading.

Professional Experience

Course Builder at UIC Biological Sciences Department

2020-Present

Trained in online instructional design & pedagogy, and software relevant to online teaching & learning. Assisting Biological Sciences Department faculty members in transitioning their courses online, and managing technical aspects of courses throughout online delivery.

Tutor at Nurturing Wisdom Tutoring

2018-2020

Highly-rated individual tutoring for grades 7-12 in test preparation (SAT and HSETs), science, mathematics, and writing.

Forensic Molecular Biologist at NYC Office of Chief Medical Examiner

2012-2015

Examined evidence for the presence of biological fluids, performed serological & DNA analysis techniques, analyzed data & performed statistical analyses, wrote reports, and provided expert scientific testimony in court.

Health Research Intern at NYC Department of Health

2011-2012

Accepted to the Health Research Training Program for a year-long internship with the Bureau of Environmental Disease Prevention. Received training in disease epidemiology, emergency preparedness & response, public health and outreach programs in environmental disease control & prevention, and emerging viral infections.

Honors, Fellowships & Awards

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| 2020 | Recipient of the Biological Sciences Department Graduate Teaching Award for BIOS 220 |
| 2018 | Recipient of the Biological Sciences Department Travel Award |
| 2018 | Recipient of the Biological Sciences Department Graduate Teaching Award for BIOS 430 |
| 2017 | Accepted to NSF-funded summer workshop on diversification rates & macroevolution |
| 2017 | Recipient of the Biological Sciences Department Travel Award |
| 2017 | Accepted to microMORPH Plant Anatomy Summer Course at Harvard University |

Extracurricular

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|--------------|---|
| 2020-Present | Developed R functions for automated Blackboard grade finalization |
| 2020-Present | Created a website to manage student materials and tutorials in BIOS 220: Genetics |
| 2020 | Participant in the 2020 Chicago R Collaborative Conference |
| 2018 | Created programming tutorials for use in BIOS 331: General Ecology Laboratory |
| 2017-Present | Reviewer for International Journal of Botany, Oxford Bibliographies |
| 2016 | General horticulture volunteer at Garfield Park Conservatory |

Presentations

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| Annual Meeting of the Botanical Society of America at Rochester, MN Poster Delaney, Lucy E , Ramanauskas, K., & Igić, B., Breeding Systems in the Legumes. | 2018 |
| microMORPH Summer Course at Arnold Arboretum, Harvard Talk Delaney, Lucy E , Evolutionary Consequences of Plant Mating Systems. | 2017 |

Publications

- Delaney, Lucy E**, Ramanauskas, K., & Igić, B. (2020a). Breeding systems in the legumes: What do we know? *Manuscript in Prep.*
- Delaney, Lucy E**, Ramanauskas, K., & Igić, B. (2020b). Breeding systems in the orchids. *Manuscript in Prep.*
- Delaney, Lucy E**. (2012). Nietzsche, nerve stimulation-image connection, and ontology. *John Jay's Finest*, 27, 99–103.